

## EAST Search History

## EAST Search History (Prior Art)

| Ref # | Hits | Search Query                                       | DBs   | Default Operator | Plurals | Time Stamp          |
|-------|------|--|---|------------------|---------|---------------------|
| L1    | 533  | (280/259).CCLS.                                    | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2009/09/24<br>12:45 |
| L3    | 4    | "2003072666"                                       | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2009/09/24<br>12:50 |
| S1    | 453  | (74/47).CCLS.                                      | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2009/09/21<br>11:11 |
| S2    | 550  | (74/594.2).CCLS.                                   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2009/09/21<br>11:12 |
| S3    | 713  | (74/594.1).CCLS.                                   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2009/09/21<br>11:13 |
| S4    | 46   | (crank).ti. and bicycle and<br>(fiber) and mold\$3 | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2009/09/21<br>11:14 |
| S5    | 2    | "4811626".pn.                                      | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2009/09/21<br>11:21 |
| S6    | 0    | "200351573"  | US-PGPUB  | OR               | ON      | 2009/09/21<br>11:21 |

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| S7  | 0   | "2003051573"  | US-PGPUB  | OR | ON  | 2009/09/21<br>11:21 |
| S8  | 1   | "20030051573"   | US-PGPUB  | OR | ON  | 2009/09/21<br>11:21 |
| S9  | 187 | ((method or process) and<br>crank and bicycle).clm.   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2009/09/21<br>11:26 |
| S10 | 533 | (280/259).CCLS.   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/09/21<br>12:09 |
| S11 | 4   | S10 and fiber and mold\$3   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2009/09/21<br>12:09 |
| S12 | 295 | (yasuhisa near masuda)<br>or (kenichi near yoshioka)<br>or (tetsu near nonoshita)<br>or (takuji near kishita)   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2009/09/21<br>12:16 |
| S13 | 4   | "2003072666"  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2009/09/21<br>12:28 |
| S14 | 11  | ("20030051573"  <br>"20030066383"  <br>"20050011304"  <br>"20060101940"  <br>"20070095164"  <br>"20080224440"  <br>"2350468"   "4811626"  <br>"6508146"   "7263914").<br>PN. OR ("7527277").<br>URPN. | US-PGPUB;<br>USPAT; USOCR   | OR | ON  | 2009/09/21<br>12:38 |
| S15 | 7   | ("2350468").URPN.   | USPAT   | OR | ON  | 2009/09/21<br>12:39 |

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| S16 | 16 | ("3110227"   "3592103"   "4465221"   "4602732"   "4811626"   "5094383"   "5197353"   "5495977"   "5720833"   "5819599"   "5819600"   "5845543"   "5893299"   "5904072").<br>PN. OR ("6059171").<br>URPN. | US-PGPUB;<br>USPAT; USOCR   | OR | ON | 2009/09/21<br>12:49 |
| S17 | 4  | S16 and (plastic or fiber or polymer)  | US-PGPUB;<br>USPAT; USOCR   | OR | ON | 2009/09/21<br>12:50 |
| S18 | 21 | ("0594047"   "3789696"   "3922929"   "4807491"   "5161430").PN. OR ("5609070").URPN.   | US-PGPUB;<br>USPAT; USOCR   | OR | ON | 2009/09/21<br>12:53 |
| S19 | 0  | S18 and coat   | US-PGPUB;<br>USPAT; USOCR   | OR | ON | 2009/09/21<br>12:53 |
| S20 | 0  | S18 and coat\$3  | US-PGPUB;<br>USPAT; USOCR   | OR | ON | 2009/09/21<br>12:54 |
| S21 | 7  | ("2350468").URPN.  | USPAT   | OR | ON | 2009/09/21<br>13:57 |
| S22 | 46 | ("0385717"   "0626630"   "0628173"   "2350468").<br>PN. OR ("4811626").<br>URPN.   | US-PGPUB;<br>USPAT; USOCR   | OR | ON | 2009/09/21<br>14:34 |
| S23 | 12 | (crank).ti. and bicycle and (fiber) and mold\$3 and unidirection\$3  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/09/21<br>15:34 |
| S24 | 3  | (crank).ti. and bicycle and (fiber) and mold\$3 and (aluminum with fiber with insert)  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/09/21<br>17:18 |
| S25 | 3  | (crank).ti. and bicycle and mold\$3 and (aluminum with fiber with insert)  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/09/21<br>17:24 |
| S26 | 0  | (crank).ti. and bicycle and mold\$3 and (aluminum with fiber with screw)   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/09/21<br>17:25 |

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| S27 | 10 | (crank).ti. and bicycle and mold\$3 and (aluminum with fiber)   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/09/21<br>17:30 |
| S28 | 54 | (bicycle).ti. and crank and mold\$3 and (aluminum with fiber)   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/09/21<br>17:43 |
| S29 | 0  | (crank).ti. and bicycle and mold\$3 and (aluminum with fiber with seat)   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/09/21<br>17:46 |
| S30 | 8  | (bicycle).ti. and mold\$3 and (aluminum with fiber with seat)   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/09/21<br>17:47 |
| S31 | 0  | ("2004/0182197").URPN.  | USPAT   | OR | ON | 2009/09/21<br>17:49 |
| S32 | 0  | (10/389937).APP.  | USPAT; USOCR  | OR | ON | 2009/09/21<br>17:49 |
| S33 | 11 | ("20010049976"  <br>"4183261"   "4811626"  <br>"5435869"   "5690034"  <br>"5851459"   "5941135"  <br>"6058803"   "6314834"  <br>"6443033").PN. OR<br>("6564675").URPN.  | US-PGPUB;<br>USPAT; USOCR   | OR | ON | 2009/09/21<br>18:00 |
| S34 | 20 | ("20010049976"  <br>"20030019324"  <br>"20030019325"  <br>"20030037638"  <br>"20030066383"  <br>"4811626"   "5493937"  <br>"5632940"   "5941135"  <br>"6079294"   "6145184"  <br>"6202506"   "6305243"  <br>"6314834"   "6353992"  <br>"6443033"   "6508146"  <br>"6543308"   "6564675").<br>PN. OR ("7263914").<br>URPN. | US-PGPUB;<br>USPAT; USOCR   | OR | ON | 2009/09/21<br>18:02 |

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| S35 | 15   | ("3362252"   "4183261"   "4300410"   "4414860"   "4665834"   "4841801").<br>PN. OR ("5690034").<br>URPN. | US-PGPUB;<br>USPAT; USOCR   | OR | ON | 2009/09/21<br>18:06 |
| S36 | 4    | (crank).ti. and bicycle and<br>oxide   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/09/23<br>11:50 |
| S37 | 1    | (crank).ti. and bicycle and<br>(oxide with (layer or skin))  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/09/23<br>11:51 |
| S38 | 10   | (crank).ti. and (oxide with<br>(layer or skin))  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/09/23<br>11:51 |
| S39 | 879  | (bearing).ti. and (oxide<br>with (layer or skin))  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/09/23<br>11:52 |
| S40 | 1    | (bearing).ti. and bicycle<br>and (oxide with (layer or<br>skin))   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/09/23<br>11:52 |
| S41 | 2    | "6979129".pn.  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/09/23<br>11:55 |
| S42 | 1118 | (bearing same (oxide with<br>(layer or skin)) same<br>aluminum)  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/09/23<br>11:56 |
| S43 | 3    | (bearing same (oxide with<br>(layer or skin)) same<br>aluminum) and bicycle                              | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/09/23<br>11:57 |

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| S44 | 331   | ((oxide with (layer or skin)) same aluminum) and bicycle                                    | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/09/23<br>12:00 |
| S45 | 0     | ((oxide with (layer or skin)) same aluminum same bushing) and bicycle                       | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/09/23<br>12:03 |
| S46 | 3     | ((oxide with (layer or skin)) same aluminum same insert) and bicycle                        | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/09/23<br>12:03 |
| S47 | 1     | "2003288331"  | JPO   | OR | ON | 2009/09/23<br>12:06 |
| S48 | 0     | "20030288331"   | JPO   | OR | ON | 2009/09/23<br>12:06 |
| S49 | 1     | jp-2003288331-\$.did.   | JPO   | OR | ON | 2009/09/23<br>12:06 |
| S50 | 0     | jp-20030288331-\$.did.  | JPO   | OR | ON | 2009/09/23<br>12:06 |
| S51 | 56    | (bicycle).ti. and (insert near member)  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/09/23<br>12:13 |
| S52 | 9     | (bicycle and crank).ti. and (insert near member)  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/09/23<br>12:13 |
| S53 | 1     | bicycle and crank and (insert near member) and (aluminum same (oxide with (layer or skin))) | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/09/23<br>12:14 |
| S54 | 28306 | (aluminum) and (fiber) and (oxide with (skin or layer))                                     | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/09/23<br>12:16 |

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| S55 | 273 | (aluminum) and (fiber) and (oxide with (skin or layer)) and bicycle   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/09/23<br>12:17 |
| S56 | 8   | (aluminum) and (fiber) and (oxide with (skin or layer)) and bicycle and crank                                     | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/09/23<br>12:23 |
| S57 | 7   | (bicycle and crank).ti. and ((insert near member) with fiber)   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/09/23<br>12:44 |
| S58 | 1   | (bicycle and crank).ti. and ((insert near member) same fiber same aluminum)                                       | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/09/23<br>12:44 |
| S59 | 40  | (bicycle and crank).ti. and (fiber same aluminum)   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/09/23<br>12:44 |
| S60 | 283 | bicycle and crank and (fiber same aluminum)   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/09/23<br>12:44 |
| S61 | 24  | bicycle and crank and (fiber same aluminum same ((insert near member) or sleeve or bearing or bushing))           | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/09/23<br>12:45 |
| S62 | 52  | bicycle and crank and (fiber same aluminum same ((insert near member) or sleeve or bearing or bushing or insert)) | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/09/23<br>12:47 |

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| S63 | 197 | bicycle and crank and (fiber same ((insert near member) or sleeve or bearing or bushing or insert))                                  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/09/23<br>12:54 |
| S64 | 1   | bicycle and crank and ((combination with fiber with aluminum) same ((insert near member) or sleeve or bearing or bushing or insert)) | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/09/23<br>13:08 |
| S65 | 24  | bicycle and crank and ((combination with fiber with aluminum))   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/09/23<br>13:09 |
| S66 | 2   | bicycle and crank and ((fatigue with strength) same ((insert near member) or sleeve or bearing or bushing or insert))                | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/09/23<br>13:15 |
| S67 | 3   | S65 and fatigue  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/09/23<br>13:16 |
| S68 | 21  | S65 and strength   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/09/23<br>13:16 |
| S69 | 1   | bicycle and crank and ((combination with fiber with aluminum)) and (fatigue with strength)   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/09/23<br>13:44 |
| S70 | 3   | bicycle and crank and ((combination with fiber with aluminum)) and (fatigue)   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/09/23<br>13:44 |

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| S71 | 2 | "5632940".pn. | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/09/23<br>17:50 |
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**EAST Search History (I nterference)**

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**9/ 24/ 2009 12:51:46 PM**

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